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SEAT No. _____

No. of Printed Pages: 02

SARDAR PATEL UNIVERSITY
External Examination (CBCS)
B. Sc. (Computer Science) – 5th Semester
US05CCSC21: Object Oriented Programming using C++
23rd November, Tuesday, 2021



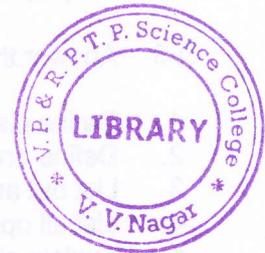
Time: 3.00pm to 5.00pm

Total Marks: 70

Q-1 Select an appropriate option.

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1. _____ is basic run time entity in object-oriented system.
(a) Class (b) Object (c) Data (d) Function
2. _____ means ability to take more than one form.
(a) Inheritance (b) Polymorphism (c) Data hiding (d) Encapsulation
3. C++ allows declaration of variables at _____.
(a) Anywhere in the scope
(b) Before it is used in executable statement
(c) Both (a) and (b)
(d) None
4. _____ function is used to copy one string into another string.
(a) strcpy() (b) stringcpy() (c) strcopy() (d) StrCopy()
5. _____ is a variable of type class.
(a) Static (b) Object (c) Operator (d) Constant
6. _____ is used to free/destroy the memory occupied by the objects.
(a) Constructor (b) Destructor (c) Delete (d) None of these
7. By default, main() in C++ returns _____.
(a) void (b) int (c) char (d) char*
8. In case of multipath inheritance, problem of duplicate data-members is resolved using _____ keyword.
(a) abstract (b) const (c) virtual (d) default
9. Which one of the following operators can be overloaded?
(a) :: (b) New (c) .* (d) Sizeof
10. A pointer is _____.
(a) A keyword used to create variables
(b) A variable that stores address of an instruction
(c) A variable that stores address of other variable
(d) All of the above



(P.T.O.)

Q-2 Fill in the blanks / True or False

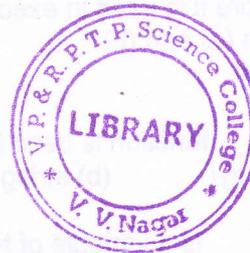
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1. In _____ data is hidden and cannot be accessed by external functions.
2. The header file _____ should be included that use input/output statements.
3. _____ operator is the same as "scanf()" function used in C.
4. _____ is a user define data type.
5. strcpy() function is mostly used to initialize string data-member inside the parameterized constructor. (True / False)
6. Creating a new class using one or more existing classes is known as Polymorphism. (True / False)
7. The correct function name for overloading the addition (+) operator is operator+. (True / False)
8. ?: operators cannot be overloaded. (True / False)

Q-3 Answer the following questions. (Attempt any TEN)

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1. Define class & object.
2. Define encapsulation as concept of OOP.
3. List out any four header files in C++.
4. List all operations on array.
5. Explain cin in C++ with example.
6. Define destructor with example.
7. Discuss default arguments briefly.
8. Explain inline function with example.
9. What is the difference between private and protected members of the class?
10. What is operator overloading?
11. What are input and output stream?
12. What is this pointer?



Q-4 Answer the following questions. (Attempt any FOUR)

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1. Explain features of OOP in detail.
2. Explain different data type available in C++.
3. What do you mean by constructors? What is the use of constructors in C++?
4. Define array. Explain passing arrays to functions with example.
5. Define inheritance. List all types of inheritance. Discuss the syntax of defining base-class & derived class.
6. Explain the concept of friend function with suitable example.
7. Explain binary operator overloading with example.
8. Explain unary operator overloading with example.

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(2)